

## Programme Regulations: 2023/24

### Programme Titles: Degree of Master of Science in Automation and Control: Code: 5057F

### Degree of Master of Science in Electrical Engineering: Code: 5467F\*

#### Notes:

- (i) *These programme regulations should be read in conjunction with the University's Taught Programme Regulations.*
- (ii) *A core module is a module which a student must pass.*
- (iii) *A core module for PSRB accreditation is a module a student is required to obtain accreditation.*
- (iv) *A compulsory module is a module which a student is required to study.*
- (v) *If a candidate is a graduate of Newcastle University the candidate is not permitted to take a module which has already been taken as part of another programme. In such a case the Degree Programme Director shall substitute appropriate modules.*
- (vi) *\*Degree of Master of Science in Electrical Engineering - Code: 5467F, is a non-accredited Masters degree title awarded where a candidate only meets the requirements of the University's Taught Programme Regulations and not the requirements of accreditation.*

#### 1. Programme structure

- (a) The programme is available for study in full-time mode only.
- (b) The period of study for full-time mode shall be 1 year starting in September.
- (c) The programme comprises modules to a credit value of 180.
- (d) All candidates shall take the following compulsory modules:

Code	Descriptive title	Total Credits	Credits Sem 1	Credits Sem 2	Credits Sem 3	Level	Core for PSRB Accreditation	Core for outcomes	Mode
EEE8097	Individual Project	60		10	50	7			
EEE8150	Industrial Automation, PLCs and Robotics	20	20			7			Block
EEE8151	Distributed Control Systems	20		20		7			Block
EEE8152	Digital Control Systems	20		20		7			Block
EEE8153	Linear Controller Design & State Space with Matlab Applications	20	20			7			Block

(e) All candidates shall select one of the streams listed in (i) to (ii) below:

**(i) Control Systems Stream**

All candidates shall take the following compulsory modules:

Code	Descriptive title	Total Credits	Credits Sem 1	Credits Sem 2	Credits Sem 3	Level	Core for PSRB Accreditation	Core for outcomes	Mode
EEE8154	Control of Electric Drives	20	20			7			Block
EEE8158	Robust and Adaptive Control Systems	20		20		7			Block

**(ii) Mechatronics Stream**

All candidates shall take the following compulsory modules:

Code	Descriptive title	Total Credits	Credits Sem 1	Credits Sem 2	Credits Sem 3	Level	Core for PSRB Accreditation	Core for outcomes	Mode
MEC8057	Mechatronics and Mobile Robotics	20		20		7			Block
MEC8058	Instrumentation and Drive Systems	20	20			7			Block

**2. Assessment methods**

Details of the assessment pattern for each module are explained in the module outline.

*For the purpose of professional accreditation, the University's Education Committee has approved a variation in Postgraduate (Taught) Examination Conventions to the effect that a candidate who passes all modules and fails up to 20 credits of modules is recommended, as of right, for the award of an appropriate Master's degree or Postgraduate Diploma, provided that no mark is below 40 and the weighted average mark for all modules and all non-modular aggregated assessment is at least 50.*

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